

EXHIBIT F

US7840165B2 - Claim 1 as applied to Brother

Claim 1

A toner replenishing apparatus comprising:

a toner replenishing container for accommodating toner to be replenished to a developing device;

a container holding member for holding the toner replenishing container in a detachable manner;

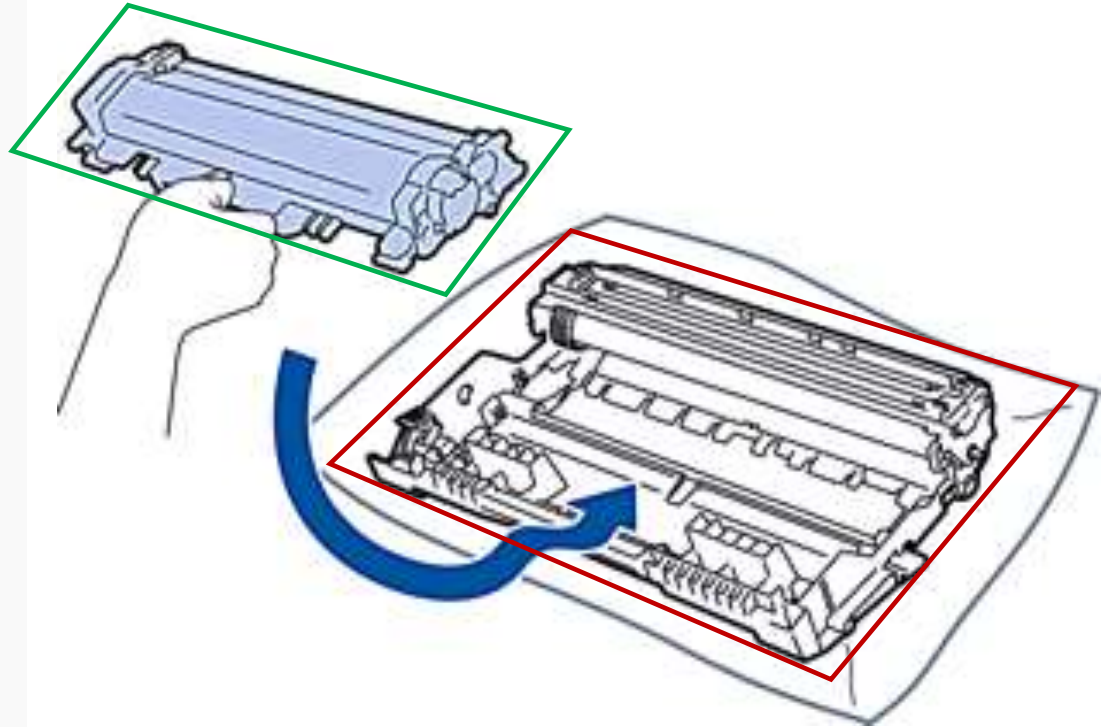
a displacement mechanism for displacing the toner replenishing container from a position where the toner replenishing container is held by the container holding member; and

a retaining member for retaining the toner replenishing container securely in the container holding member,

wherein the displacement mechanism effects displacement of the toner replenishing container in conjunction with a release of the toner replenishing container from a retaining action of the retaining member, and

the displacement mechanism includes a hook portion formed in the retaining member and an engagement portion formed in the toner replenishing container, the engagement portion being engaged with the hook portion under a condition that the toner replenishing container is released from the retaining action of the retaining member.

Brother DR-730 Drum Unit & TN-760 Toner Cartridge for Laser Printers



The Brother DR-730 drum unit is a toner replenishing apparatus that holds a TN-760 toner cartridge (a toner replenishing container). The TN-760 accommodates toner to be replenished to a developing device (i.e., a Brother MFP).

Source:

https://support.brother.com/g/b/faqend.aspx?c=us&lang=en&prod=hll2370dw_us&ftype3=2043&faqid=faq00000154_078

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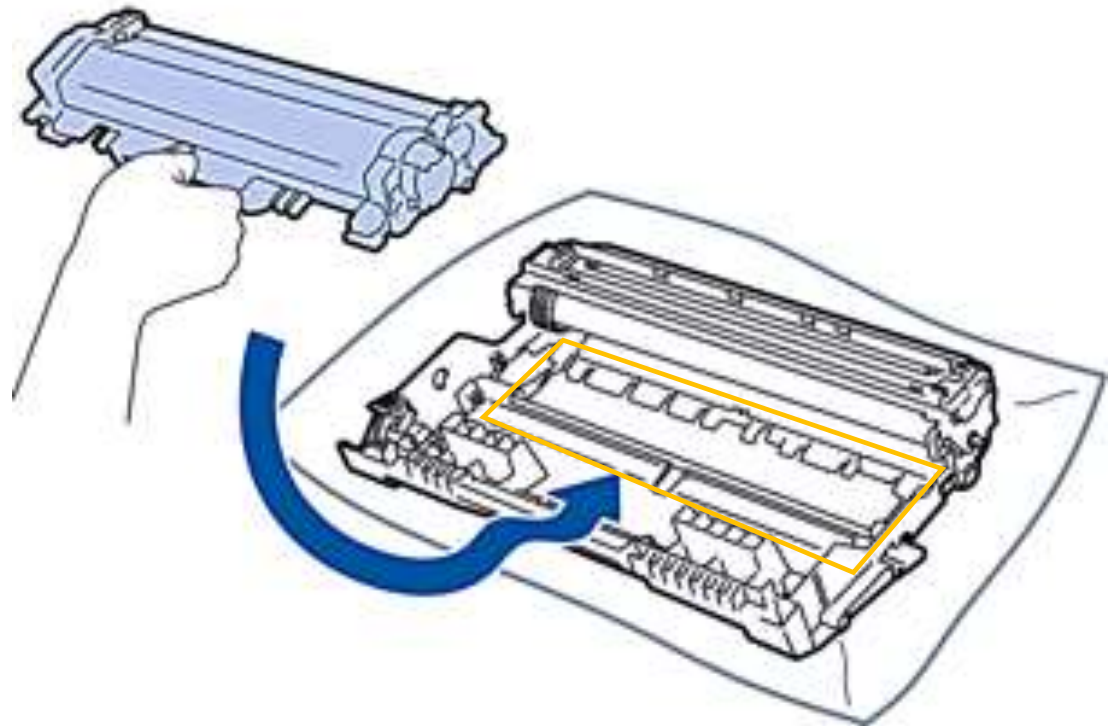
a displacement mechanism for displacing the toner replenishing container from a position where the toner replenishing container is held by the container holding member; and

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Brother DR-730 Drum Unit & TN-760 Toner Cartridge for Laser Printers



The drum unit (toner replenishment apparatus) has grooves forming a container holding member built into it to hold the toner cartridge in place.

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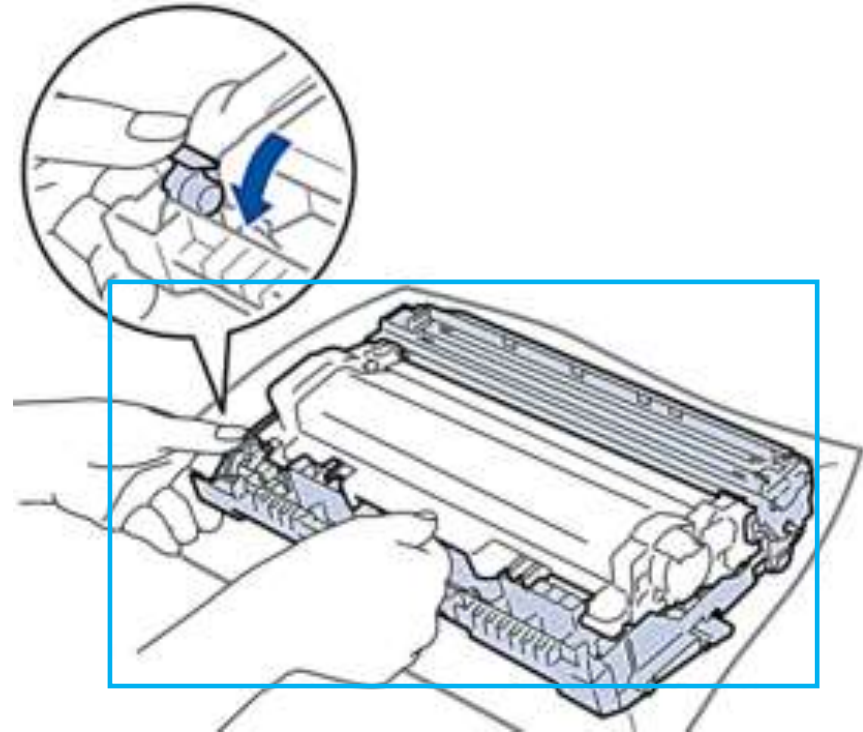
a retaining member for retaining the toner replenishing container securely in the container holding member,

wherein the displacement mechanism effects displacement of the toner replenishing container in conjunction with a release of the toner replenishing container from a retaining action of the retaining member, and

the displacement mechanism includes a hook portion formed in the retaining member and an engagement portion formed in the toner replenishing container, the engagement portion being engaged with the hook portion under a condition that the toner replenishing container is released from the retaining action of the retaining member.

Brother DR-730 Drum Unit & TN-760 Toner Cartridge for Laser Printers

4. Push down the green lock lever and take the toner cartridge out of the drum unit.



The drum unit includes a lock lever that, when pressed, displaces the toner cartridge from the container holding member. The drum unit thus includes a displacement mechanism activated by the lock lever.

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Brother DR-730 Drum Unit & TN-760 Toner Cartridge for Laser Printers



As shown, pushing the lever causes an upward displacement of the toner cartridge from the drum unit by a displacement mechanism.

Source: <https://youtu.be/6qslOuUZLSE?t=14>

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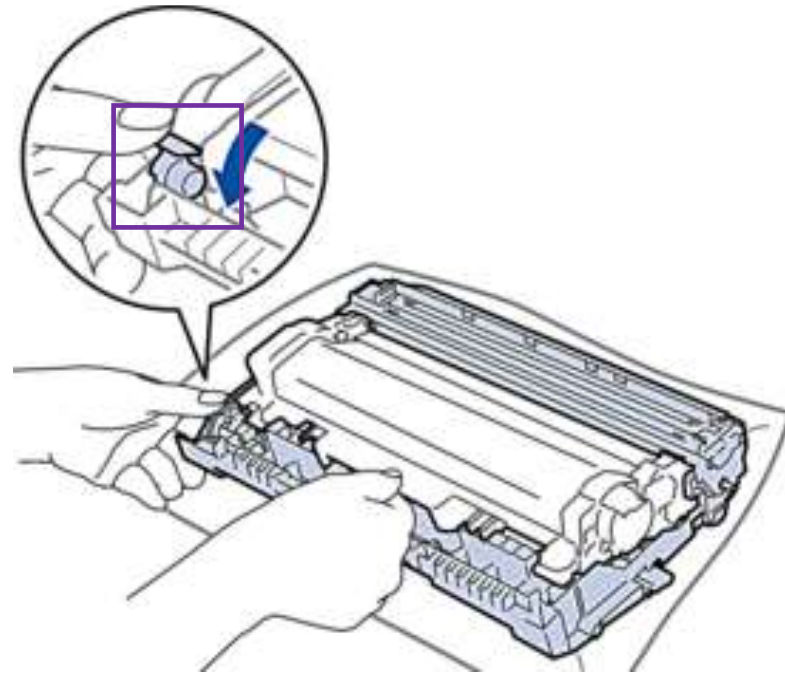
a retaining member for retaining the toner replenishing container securely in the container holding member,

wherein the displacement mechanism effects displacement of the toner replenishing container in conjunction with a release of the toner replenishing container from a retaining action of the retaining member, and

the displacement mechanism includes a hook portion formed in the retaining member and an engagement portion formed in the toner replenishing container, the engagement portion being engaged with the hook portion under a condition that the toner replenishing container is released from the retaining action of the retaining member.

Brother DR-730 Drum Unit & TN-760 Toner Cartridge for Laser Printers

4. Push down the **green lock lever** and take the toner cartridge out of the drum unit.



The drum unit contains a retaining member for retaining the toner replenishing container securely in the container holding member. When the lock lever is in a locked position, the toner cartridge is securely retained within the drum unit.

Source:

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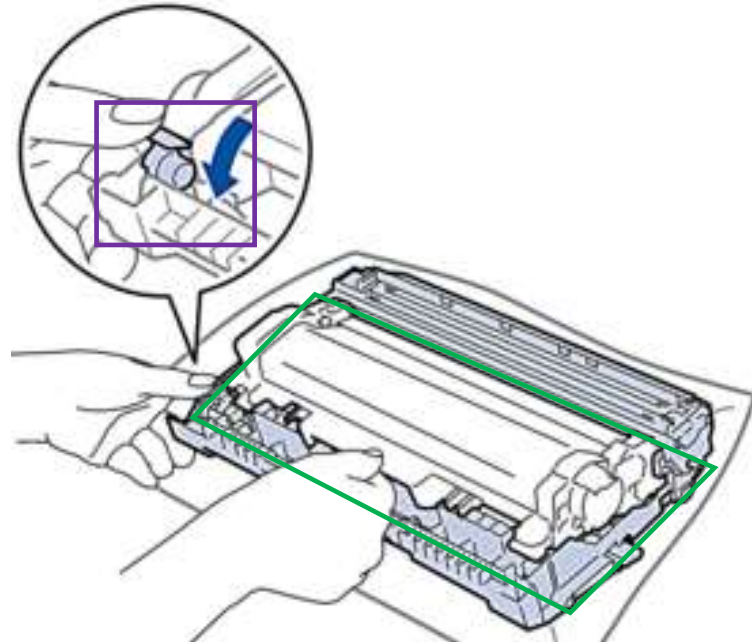
a retaining member for retaining the toner replenishing container securely in the container holding member,

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Brother DR-730 Drum Unit & TN-760 Toner Cartridge for Laser Printers

4. Push down the green lock lever and take the toner cartridge out of the drum unit.



The displacement mechanism associated with the lock lever effects displacement of the toner cartridge in conjunction with a release of the toner cartridge from a retaining action of the retaining member. When the lock lever is pressed, the toner cartridge is displaced upward.

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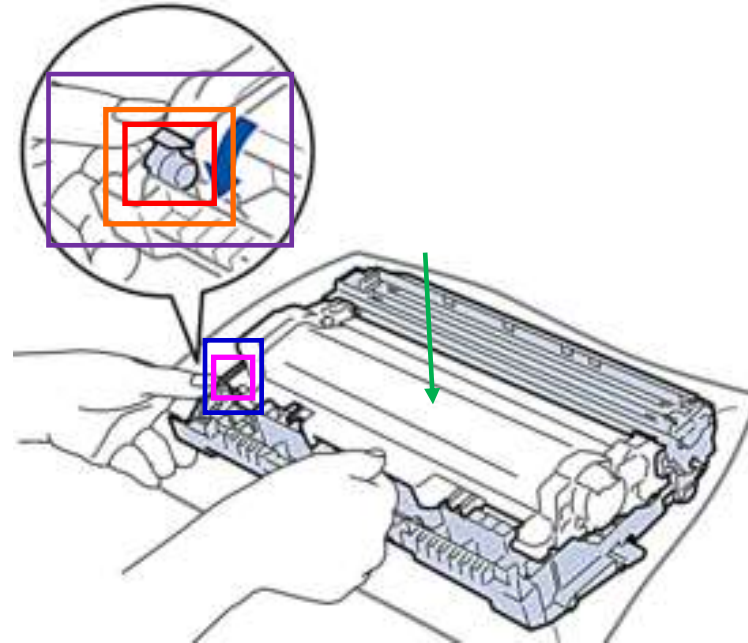
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4. Push down the green lock lever and take the toner cartridge out of the drum unit.



The displacement mechanism includes a hook portion formed in the retaining member. This is evident at least from the protruding engagement portion on the toner cartridge, which engages with the displacement mechanism under a condition that the toner cartridge is released from the retaining action of the retaining member.

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